

GILA RIVER BASIN

09520160 GIBSON ARROYO AT AJO, AZ

LOCATION.--Lat 32°22'48", long 112°51'40", in NW¹/₄SW¹/₄ sec.14, T.12 S., R.6 W., Pima County, Hydrologic Unit 15070202, at 2nd Avenue next to railroad tracks in Ajo.

DRAINAGE AREA.--2.18 mi².

Annual peak discharges

Water year	Date	Annual peak discharge (ft ³ /s)	Discharge codes	Water year	Date	Annual peak discharge (ft ³ /s)	Discharge codes
1967	07-22-67	132		1975	10-29-74	320	
1968	07-04-68	553		1976	09-05-76	340	
1969	08-11-69	306		1977	07-04-77	50	
1970	08-02-70	¹ 1,800		1978	08-11-78	380	
1971	08-19-71	10	LT	1979	08-13-79	270	
1972	08-00-72	345		1980	08-13-80	70	
1973	08-00-73	240		1981	08-23-81	200	
1974	08-02-74	254					

¹Highest since 1960.

Magnitude and probability of instantaneous peak flow based on period of record 1967-81

Discharge, in ft ³ /s, for indicated recurrence interval in years, and exceedance probability, in percent					
2 50%	5 20%	10 10%	25 4%	50† 2%	100† 1%
231	474	686	1,010	1,300	1,620
Weighted skew	(logs) =	-0.07			
Mean	(logs) =	2.36			
Standard dev.	(logs) =	0.37			

† Reliability of values in column is uncertain, and potential errors are large.

Basin characteristics

Main channel slope (ft/mi)	Stream length (mi)	Mean basin elevation (ft)	Forested area (percent)	Soil index	Mean annual precipitation (in)	Rainfall intensity, 24-hour	
						2-year (in)	50-year (in)
171	2.8	2,100	0.0	2.0	8.1	1.7	4.1

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